TORBIN, N. M., (TPI)

"The X-ray absorption factor increases with increasing molecular weight of pressed alkali halide salts"

Report presented at a Conference on Solid Dielectrics and Semiconductors, Tomsk Polytechnical Inst., 3-8 Feb. 58. (Elektrichestvo, '58, No. 7, 83-86)

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	TORBIN,	N.M.				See Control of Control of Section (1997)		
		Incomplete breakdown electric fields. Fi	n and radi iz. tver.	ation in co tela 2 no.:	rystals of 10:2493-249	NaCl in strong 6 '60. (MIRA 13:12)		
		(Salt crystal	ls)	(Electri	c fields)	•		
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TORBIN, N.M., inzh.

Prebreakdown currents in thick solid dielectrics. Izv.vys. ucheb.zav.; energ. 3 no.10:26-31 0 '60. (MIRA 13:11)

1. Tomskiy politekhnicheskiy institut imeni S.M.Kirova. Predstavlena seminarom po fizike dielektrikov kafedr diziki, tekhniki vysokikh napryazheniy i elektroizolyatsionnoy i kabel'noy tekhniki.

(Dielectrics)

30772 \$/181/61/003/011/004/056 £102/£138

24.7800 (1164,:1385,1559)

Vorob'yev, A. A., Vorob'yev, G. A., and Torbin, N. M.

TITLE:

AUTEORS:

Discharge formation processes in solid dielectrics

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3272-3277

TEXT: Breakdown effects were studied in NaCl, KCl and KBr single crystals. Breakdown was induced by applying a point with positive or negative potential to a crystal face. In NaCl discharge propagates along the [100] direction if the point has negative polarity, along [111] if it has positive polarity (minimum breakdown voltage) and along [110] in the case of positive overvoltage. With growing overvoltage anode sparkover thus changes its direction according to [111] \rightarrow [110] \rightarrow [100]. Discharge propagates with v<sub>br</sub>=d/t where d is the thickness of the crystal and t<sub>f</sub> the discharge formation time. In order to gain data of great interest for the theory of electric breakdown in solid dielectrics the authors measured the currents passing through the sample before, and in the moment of, breakdown and the time required for the formation of a breakdown. In most experiments the point was of positive polarity and the other electrode, a plate, of Card 1/4

30772 B/181/61/003/011/004/056 B102/B138 Discharge formation processes in solid ... negative. The discharge-forming current i, increases with increasing sample thickness according to i = ke md where k and m are constants.  $m = 0.2 \text{ mm}^{-1}$  and  $k = 4.2 \cdot 10^4 \text{ a (NaCl)}, 2.5 \cdot 10^4 \text{ a (KCl)}$  and  $1.8 \cdot 10^4 \text{ a (KBr)}$ for positive point polarity. For negative polarity  $k=13.5\cdot 10^4$  a for NaCl. From this it may be seen that the higher the lattice energy the higher must be the discharge-forming current. The energy of discharge uidt, or, in the case of breakdown with a idt. An estimation of the square pulse spark channel in NaCl radii yields the following results: W<sub>m</sub>·10<sup>−5</sup>joule 0.3 1.27 3.21 9.85 0.64 0.83 1.11 1.63 Card 2/4

Discharge formation processes in solid ...

30772 \$/181/61/003/011/004/056 B102/B138

The channel diameters measured in incomplete breakdown were between 2 and  $4 \, \mu$ . The channel radii of streamer sparkover were found to be ~10<sup>-4</sup>cm. The density of the discharge-formation current was  $10^4-10^5 a/cm^2$ . The radius of the luminescent zone in an incomplete breakdown. Light emission starts at currents of 10<sup>-3</sup>a and is probably due to thermal ionization. Discharge propagates at a rate of 1.4 - 1.3.106 cm/sec. Conclusions: The channel walls of an incomplete breakdown are melted through by the discharge-forming current. Highest breakdown voltage for negative point polarity and the polarity dependence of the direction of discharge indicate that impact ionization occurs during the formation of the discharge. The fact that discharge propagates faster if the point is positive indicates that discharge formation in rock salt is a process similar to streamer discharge in air. Breakdown voltage and formation current are higher where the lattice energy is higher. high current densities and the presence of luminescence indicate that thermal and photoionizations may also be possible during breakdown in solid dielectrics. There are 2 figures, 3 tables, and 12 references; Card 3/4

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\$/181/61/003/011/004/056

Discharge formation processes in solid ... B102/B138

7 Soviet and 5 non-Soviet. The four references to English-language publications read as follows: C. Zener. Proc. Roy. Soc. (A), 145, 523, 1934; A. Hippel. Phys.Rev., 54, 1096, 1938; H. H. Racl. GCR, 44, 8, 445, 1941; D. W. Gilman, J. Stauff. Appl. Phys., 29, 2, 120, 1958.

V

ASSOCIATION: Tomskiy politekhnicheskiy institut im. S. M. Kirova

(Tomsk Polytechnic Institute imeni S. M. Kirov)

SUBMITTED: May 4, 1961

Card 4/4

s/143/61/000/012/001/005 D299/D305

24,7700 (1160,1164,1385)

Leont'yev, Yu.N., and Torbin, N.M., Engineers

AUTHORS:

Effect of the barrier position on the breakdown

TITLE:

voltage of solid dielectrics

Izvestiya vysshikh uchebnykh zavedeniy. Energetika,

no. 12, 1961, 34 - 38 PERIODICAL:

TEXT: An experimental study is described of the effect of the TEAT: An experimental study is described of one effect of one types barrier position on the breakdown voltage of rock-salt. Two types of barriers were used in the experiments: Metal foil 1.5 - 2 µ thick of barriers were used in the experiments. thick, and triacetate film 3 µ thick. The NaCl specimens consisted of 2 parts of different thickness, their total thickness being descriptions and the har 5 mm. A conical hole was made in one of the specimens, and the barrier inserted. The results of the experiments are given in two figures and in a table. From the figures it is evident that with the barrier placed at a distance of 0.5 - 2.0 mm from the positive point, the breakdown voltage increases to a maximum. The breakdown point, the preakdown voltage increases to a maximum, the preakdown of the barrier, of the specimen is accompanied by the breakdown of the barrier, both the metallic and the one of triacetate film. The presence of cord 1/2 Card 1/3

5/143/61/000/012/001/005 33329 D299/D305

Effect of the barrier position ...

the barrier does not affect the start of the breakdown process which takes place in 2 stages: The breakdown of the specimen from the point to the barrier, followed by the breakdown from the barrier to the cathode. In the case of a metallic barrier, the first rier to the cathode by a drop in voltage, followed by an increase stage is accompanied by a drop in voltage, followed by an increase toward the breakdown value, and again a sharp drop; the breakdown channel is not continuous (from the first to the second stage). With a dielectric-film barrier, the channel is continuous. The breakwith a dielectric-lim parrier, the channel is continuous. The break down process begins in the region of maximum field-strength (at the point) and proceeds towards the interior. The cathode processes are of minor importance in the propagation of the discharge; hence the lack of influence of the cathode material on the breakdown voltage, established by other investigators. The increase in the breakdown voltage of solid dielectrics, due to the presence of harriers. voltage of solid dielectrics, due to the presence of barriers, could find many applications in high-voltage equipment and in cables. The use of barriers in insulators could improve equipment reliability. However, the present study should be viewed as a first liability. Repriess of metal foil and triccetate film in Negligeter only. step only. Barriers of metal foil and triacetate film, in NaCl. lead to a 18 - 20 % increase in breakdown voltage. The maximum va-

Card 2/3

33329 S/143/61/000/012/001/005 D299/D305

Effect of the barrier position ...

lue of the breakdown voltage is observed with barriers placed at a distance equivalent to 20 - 30 % of specimen thickness. Barriers of metal foil and of dielectric film do not affect the start of the breakdown in a nonhomogeneous field. The development of discharge in solid dielectrics of considerable thickness and in gases, exhibits a number of similarities. There are 3 figures, 1 table and 13 Soviet-bloc references.

ASSOCIATION: Tomskiy ordena Trudovogo Krasnogo Znameni politekh-

nicheskiy institut imeni S.M. Kirova (Tomsk Order of the Red Banner of Labor Polytechnic Institute imeni

S.M. Kirov)

FRESENTED: by Nauchnyy seminar kafedry tekhniki vysokikh naprya-

zheniy (Scientific Seminar of the High-Voltage Techniques Department)

SUBMITTED: January 28, 1961

Card 3/3

L 33003-00 EWT(1)/EWT(m)/EWP(j)/T IJF(c) WW/GG/RM

ACC NR: AR6016230 SOURCE CODE: UR/0058/65/000/011/E057/E057

AUTHORS: Ushakov, V. Ya.; Torbin, N. M.

00

TITLE: Concerning the development of a discharge in solid dielectrics

79 12

SOURCE: Ref. zh. Fizika, Abs. 11E440

REF SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. M.-L., Energiya, 1964, 124-127

TOPIC TAGS: dielectric breakdown, electric discharge, dielectric strength, organic glass, sodium chloride

ABSTRACT: The channels of incomplete breakdown in rock salt and organic glass are considered. It is shown that the discharge glow zone exceeds by hundreds of times the channel dimensions. It is indicated that thermo-ionization and photoionization processes can occur/during the breakdown of dielectrics. Dielectrics having larger dielectric strength have larger discharge-development rates (v). Values  $v = (2 \times 10^5 - 1.5 \times 10^7)$  cm/sec were obtained and were found to depend on the value of the excess voltage. [Translation of abstract]

SUB CODE: 20

Card 1/1 9 )

20307 s/143/60/000/010/002/011

A189/A026

9.2110 (1001,1043, 1155)

AUTHOR:

Torbin, N. M., Engineer

TTTLE:

Pre-breakdown currents in solid dielectric of large thickness

PERIODICAL:

Energetika, no. 10, 1960, 26-31

The author investigates the value and character of currents in the pre-breakdown fields of solid dielectrics under pulse voltage. Experiments were carried out with specimens, 40 x 40 x 15 mm, made of rock salt (NaCl) and KBr crystals. A conical cavity was drilled at one end of the specimens and the electrodes were affixed to them by metal evaporation in vacuum. The thickness of the specimens at the breakdown point varied from 2 to 10 mm. Tests were made with voltage pulses, 0.2 - 3.0 µsec front duration, in a non-uniform field at positive and negative point polarity. The test circuit, shown in Figure 1, consisted of a bridge circuit with a variable capacitor C1 in one of its branches serving to compensate the capacitive currents. The potential change between the points a and b of the bridge circuit (Fig. 1) was recorded by one tube of a two-tube OK-19M (OK-19M) oscillograph, while the other tube of this oscillograph recorded the current through

Card 1/6

20307 s/143/60/000/010/002/011 A189/A026

......

Pre-breakdown currents in ...

the specimen. Both tubes of this oscillograph were fed from the same timebase generator to ascertain the coincidence in time of the current and voltage oscillograms. Based on the analysis of the results obtained, the author concludes that the discharge-shaping current in solid dielectrics can be caused only by the ionization processes. The discharge shaping in thick dielectrics is analogous to the penetration of gases in large gaps. shaping of the breakdown channel takes place during the discharge-shaping stage, and its expansion during the discharge. The current during the discharge-forming stage increases with the dielectric thickness; it is larger for NaCl than for KBr crystals. Figure 2 shows the oscillograms obtained of current and voltage at positive pulse polarity of the point (Fig. 2 a) and at negative polarity (Fig. 2 b), respectively. Figure 5 shows the maximum current values for NaCl and KBr crystals during the discharge-forming stage. There are 5 figures, 1 photograph, and 17 references: 11 Soviet, 5 English, and 1 German.

ASSOCIATION: Tomskiy politekhnicheskiy institut imeni S. M. Kirov (Tomsk Polytechnic im. S. M. Kirov)

Card 2/6

S/143/60/000/010/002/011 A189/A026

Pre-breakdown currents in ...

Seminar po fizike dielektrikov kafedr fiziki, tekhniki vysokikh napryazheniy i elektroizolyatsionnoy i kabel'noy tekhniki

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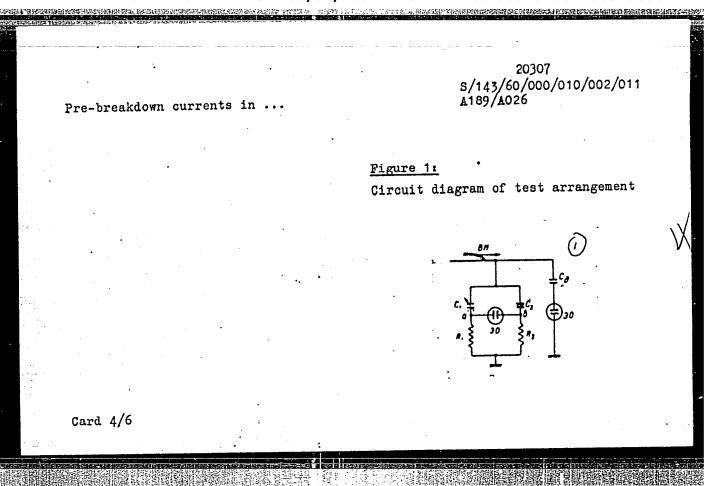
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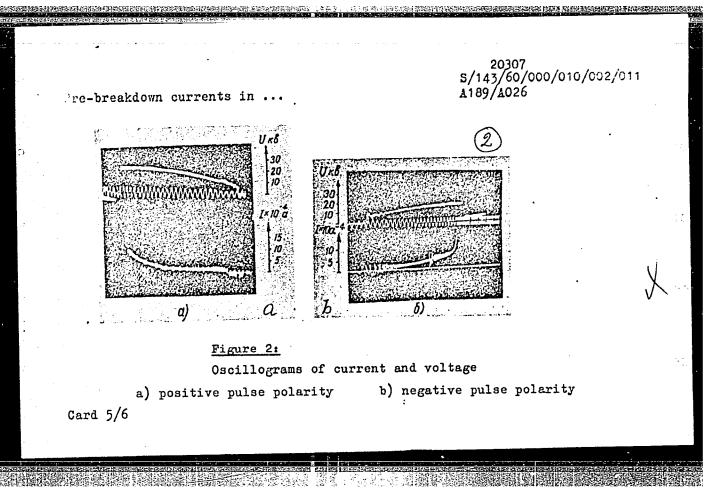
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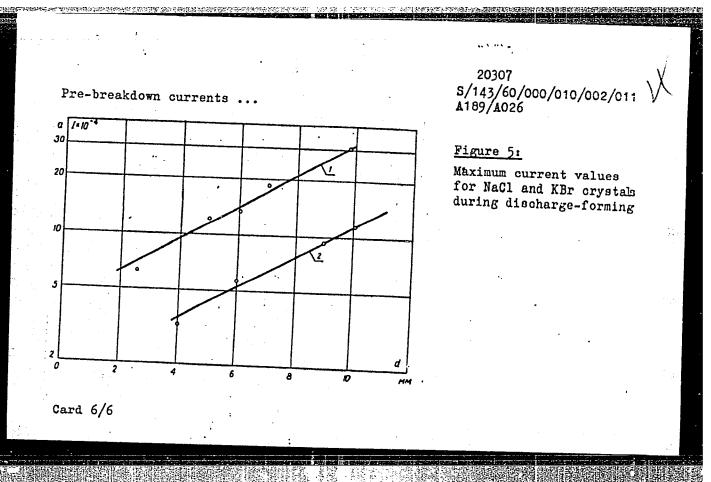
March 17, 1960 SUBMITTED:

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s/181/60/002/010/024/051 BO19/BO56

24.2400 (1385,1162,1144)

AUTHOR:

Torbin, N. M.

TITLE:

The Incomplete Breakdown and the Emission in NaCl Crystals

in Strong Electric Fields

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2493-2496

TEXT: In the introduction the author discusses the theory of the electrical breakdown of solid dielectrics and also some experimental results. He himself discovered an emission when studying the incomplete breakdown of rocksalt crystals. A voltage pulse was applied to two samples connected in parallel  $(45\times45\times30 \text{ mm})$ . The amplitude of this voltage pulse somewhat exceeded the breakdown voltage. The glow of the breakdown channel was photographed (Fig. 1). The glow could also be observed with the naked eye. In the microscope it was possible to detect tracks of the channels having a diameter of from 2 - 10µ. In the Table,

 $(2.94 - 4) \cdot 10^6$  cm/sec is given as the propagation rate of the discharge.

Card 1/2

84601

The Incomplete Breakdown and the Emission in NaCl Crystals in Strong Electric Fields

S/181/60/002/010/024/051 B019/B056

It was found that the glowing occurs during the development of the channel. The main direction of the channel is [111]. The channels have a diameter of 10 - 15 \mu . Channels perpendicular to the main direction, have a diameter of roughly 2µ. The current, which passes through the crystal at the instant of breakdown, is less than 0.5 a. Summarizing, the author states that a channel discharge in NaCl is accompanied by a glow and that the point discharge in an inhomogeneous field emanates from a positive point in the case of positive polarity of the point. The existence of an emission makes it possible to assume a filament-like development of the breakdown. The author thanks Professor A. A. Vorob'yev for valuable advice. There are 4 figures, 1 table, and 17 references: 11 Soviet, 2 German, 2 US, and 1 Dutch.

ASSOCIATION:

Tomskiy politekhnicheskiy institut im. S. M. Kirova Kafedra tekhniki vysokikh napryazheniy (Tomsk Polytechnic Institute imeni S. M. Kirov, Chair of High Voltage Technique)

SUBMITTED:

September 17, 1959 (initially), February 9, 1960 (after

Card 2/2

TORBIN, N. M., Cand Tech Sci -- "Experimental study of the process of developing punctures and destroying solid dielectrics at impulse strain." Tomsk, 1961. (Min of Higher and Sec Spec Ed RSFSR. Tomsk Order of Labor Red Banner Polytech Inst im S. M. Kirov) (KL, 8-61, 250)

- 321 -

Development of a discharge in solid dielectrics in a nonhomogenous field. Izv.An SSSR. Otd. tekh. nauk Energ. i avtom no.1:32-34 '61.

(Dielectrics)
(Breakdown, Electric)

S/0058/63/000/008/E049/E049 AR3006989 ACCESSION NR:

SOURCE: RZh. Fizika, Abs. 8E349

AUTHOR: Torbin, N. M. 

TITLE: Experimental investigation of electric breakdown of rocksalt crystals in an inhomogeneous field.

CITED SOURCE: Sb. Fiz. shchelochnogaloidn. kristallov. Riga, 1962, 370-372

TOPIC TAGS: electric breakdown, tock salt crystal, inhomogeneous field

TRANSLATION: By using voltage cutoff, the development of a discharge was investigated in electric breakdown of NaCl crystals with d = 15 mm. When the sharp point is positive, the discharge develops with an average speed on the order of 108 cm/sec. The propagation

Card 1/3

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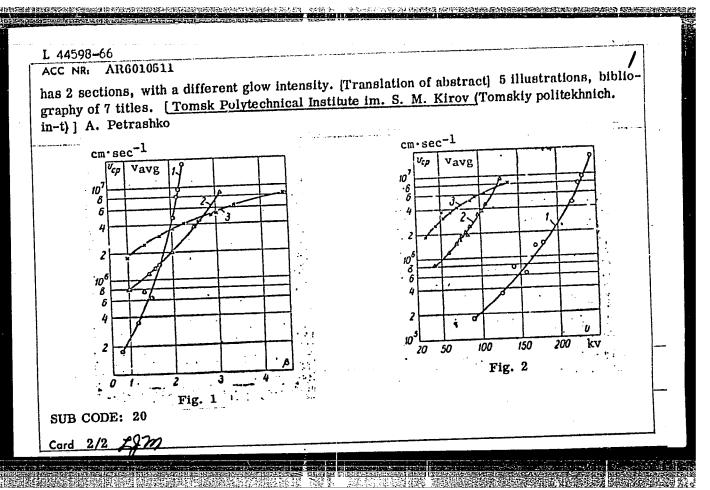
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of the discharge is accompanied by glow in the visible part of the spectrum. The current density at the instant of development of the discharge reaches 10--15 A/mm<sup>2</sup>. The initial stage of formation of the discharge channel is observed in the form of dark sections less than 1 mm in diameter, and then broadens to 5--10µ owing to thermal processes occurring upon the passage of the discharge current. thermal character of a channel formation in the NaCl indicates the presence near the discharge channel of a band that exceeds by tens of times the channel of the incomplete breakdown, and a change in . the microhardness. The region of intense ionization is observed with growing channel near the head of the developing discharge and propagates inside the crystal as the channel moves. An increase of U in the presence of a barrier indicates the possible influence of the positive space charge in the development of the discharge. The presence of radiation and the large current density in the development of the discharge indicate the predominant role of thermal

Card 2/3

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L 44598-66 EWT(1) IJP(c) GG
ACC NR: AR6010511 SOURCE CODE: UR/0196/65/000/010/B009/B010
AUTHOR: Ushakov, V. Ya.; Torbin, N. M.
TITLE: Investigation of the development of a discharge in liquid dielectrics
SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 10B53
REF SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. ML., Energiya, 1964, 227-231
TOPIC TAGS: electric discharge, liquid dielectric, dielectric property
ABSTRACT: Electrographic recording of the development of incomplete discharges was made, in transformer oil (TO), glycerin (G), distilled water (DW), with a lack of any retarding resis-
tances in a wide range of voltages. Breakdown was accomplished on the falling part of a
positive polarity pulse, with a beveled front, avg = 3.5·10 <sup>-7</sup> sec. The dependences of the rate of development of the discharge vavg upon excess voltage β (Fig. 1) and voltage U (Fig. 2)
(the curves in the drawings are: 1) TO: 2) G: 3) Dw are different for the figures tested and are
determined by their physicochemical properties. At the minimum penetration voltage, more highly polarized liquids have higher rates of discharge. In each case the nature of the dis-
charge is also different, and also its variation with excess voltage variation. With an excess
voltage $\beta = 1.45-1.5$ , in the gap in TO and with $\beta = 1.17-1.2$ in DW, the discharge channel
Card 1/2 UDC: 621.315.615.015.51



#### TOKBIN, W.

WASTERN FROM THE BOOK

The PK-2m cutter-loader speeds up coal mine drifting. Mast. ugl. 3 no.6:13-14 Je '54. (MERA 7:7)

1. Mashinist kombayna shakhty No. 2-bis kombinata Moskvougol'. (Coal mining machinery)

TO THE PROPERTY OF THE PROPERT

DIKHTYAR, Grigoriy Abramovich. Prinimali uchastiye: TORBIN, V.I.; GUSEV, A.V.; GLADKOV, I.A., prof., doktor ekonom. nauk, otv. red.; LUCH-KINA, A.N., red. izd-va; SHEVCHENKO, G.N., tekhm. red.

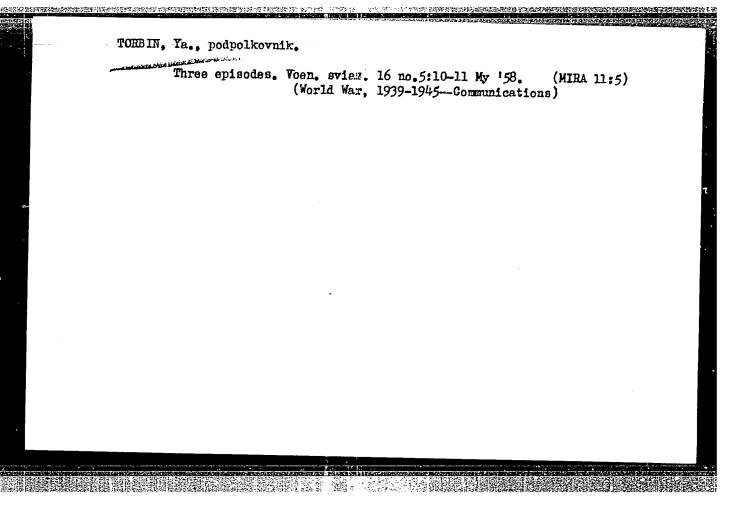
[Soviet commerce during the period of the development of socialism] Sovetskaia torgovlia v period postroeniia sotsializma. Moskva, Izdvo Akad. nauk SSSR, 1961. 471 p. (MIRA 14:11)

1. Sektor obrashcheniya Instituta ekonomiki AN SSSR (for Torbin, Gusev).

(Russia---Commerce)

In the advanced radio relay company. Voen. sviaz. 16 no.2:25-26
F '58. (MIRA 11:3)

(Radio, Military-Study and teaching)



101	LIIL, TORBIN,	Ya., gvardii podpolkovnik.	9
	<del></del>	Commander of a leading company. Voen. sviaz. 16 no.1:17-19 Je '58.  (TelegraphersStudy and teaching) (MIRA 11:2)	

TORBIN, B.F., inzh.; UBAYDULLAYEV, Kh.; ZUFAROV, D.Z., inzh.; Prinimali uchastiye: TONKIKH, P.I.; TORBINA, N.A.

Preparation of cottonseed meal for storage. Masl.-znir.prom. 28 no.2:39-42 F '62. (MIRA 15:5)

1. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta zhirov (for Torbin, Ubaydullajev). 2. Yangiyul'skiy maslozhirovoy kombinat (for Zufarov).

(Cottonseed)

RUDKOVSKAYA, R. V.; TORBINA, R. M.

Chemical cleaning of spinning machine parts. Khim. volok. no.6:59-62 162. (MIRA 16:1)

(Spinning machinery)

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TORBINA, Ye. A.

Tripolitova, A. A. and Torbina, Ye, A. "A test for cultivating microbes of the typhoid-paratyphid group in silicon media," Sbornik nauch. trudov (Irkut. in-t epidemiologee i mikrobiologii), Issue 4, 1948, p. 202-08

SO: U-3264, 10 April 1953, (Letopis 'nykh Stately, No. 3, 1949

LOYBINA YEAL .

BRANDENBURGSKIY, G.L.; TOVBINA, Ye.L.

Comparative evaluation of the effect of carbonated and oxygen baths in hypertonia. Ter.arkh. 22 no.2:64-76 Mr-Ap '50. (CIML 19:3)

1. Of the Cardiological Clinic (Head -- Prof. A.M.Sigal) of the Ukrainian Scientific-Research Institute of Health Resort Therapy in Odessa (Director Candidate Medical Sciences M.V.Lashchevker).

CHEROLOGICAL PRODUCTION OF THE PROPERTY OF THE

L 12889-63 EPF :: /EWP(j)/EWT(m)/BDS ASD/AFFTC Pr-L/Pc-L RM/W ACCESSION NR: AP3001425 5/0138/63/000/004/0001/0005 AUTHOR: Shatalov, V. P.; Gostev, M. M.; Kry\*lova, I. A.; Artemov, V. M.; Shestakova, O. G.; Korbanova, Z. N.; Slukin, A. D.; Sotnikov, I. P.; Torbinski A. N. TITLE: Low-temperature polymerized butadiene-styrene rubber with a carbon blackoil filler SOURCE: Kauchuk i rezina, no. 4, 1963, 1-5 TOPIC TAGS: polymerization, carbon black filler, oil filler, butadiene rubber, styrene rubber ABSTRACT: Studies were conducted on the preparation of stable dispersions of various types of carbon black, With and without surface-active substances. The latter included potassium resinate, Leukanol, and ammonium caseinate. The dispersions were prepared in ball mills, in jet mills, and by means of a vibret ". The kinetic and aggregate stability of the dispersions were determined. Potage im rosinate and Leukanol produced dispersions which did not separate for several days. The oil emulsion was prepared with the aid of stearic acid and triethanolamine. The carbon black dispersion was mixed with the latex of butadiene-styrene rubber Card 1/2

L 12889-63

ACCESSION NR: AP3001425

and into it was introduced the oil emulsion. The coagulation of this mass was best achieved by pouring it into a 9% solution of sedium chloride containing 7% sull ric acid at 40%. It was found that the introduction of carbon black into the latex previous to coagulation had a favorable effect on the technological properties of the vulcanizates and permitted the processing of rubbers with a higher molecular weight. The KhAF trand of carbon black and the use of potassium rosinate as emulsifier produced vulcanized rubbers of superior strength and abrasive properties, with a higher modulus of elasticity and with a better adhesion to the cord. Pasyankov, N. V., Bondaryev, A. Ye., and Gergasevich, T. V. participated in the work. Orig. art. has: 3 tables.

ASSOCIATION: Voronezhskiy zavod sinteticheskogo kauchuka i Voronezhskiy shinny\*y zavod (Voronezh Synthetic Rubber Plant and Voronezh Tire Plant)

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DATE ACQ: 30May63

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SUB CODE: 00

NO REF SOV: 002

OTHER: 002

Card 2/2

Welding the faces of a bucket dredge drum. Mor.i rech. flot 13 no.8:
(MIRA 6:12)
29 D '53.

(Dredging machinery)

TOREOCHXIN, I.L.

The PS-I patrol ship. Biul.tekh.-ekon.inform. no.2:62-64 '58.

(MIRA 11:4)

(Ships)

PETROV, Yakev Petrovich; BURGUTIN, K.S., retsenment; KOLOSOV, V.D., retsenment; TORBOCHKIN, I.L., retsenment; KUTUKOV, G.M., redaktor; PITERMAN, Ye.L., redaktor; KOLESNIKOVA, A.P., tekhnicheskiy redaktor.

[Steam powered vessels] Paromotornyi flot. Meskva, Goslesbumizdat, 1955. 306 p. (MLRA 9:1)

(Steamboats)

SAKSONOV, L.G.; DODIN, Ya.L.; SOKOLOVSKIY, L.O.; TORBOCHKIN, L.I.

Exothermic heating of mold risers for steel alloy ingots. Lit.

(MIRA 15:11)

prolav. no.9:12 S '62.

(Steel ingots) (Risers (Founding))

DODIN, Yakov L'vovich[deceased]; SAKSONOV, Lev Geselevich; SOKOLOVSKIY, Lev Osipovich; TORBOCHKIN, Lev Isaakovich; MITIN, V.I., red.; VAYNSHTEYN, Ye.B., tekhn. red.

[Molds for alloyed steel ingots] Izlozhnitsy dlia slitkov legirovannykh stalei. Moskva, Metallurgizdat, 1963. 191 p. (MIRA 16:5)

(Ingot molds) (Steel ingots)

TORBOCHKIN, L.I.

Outting Machines

Calculation of the founding process in easting cutting tools. Stan. i instr. 23, no. 5, 1952.

GUBERNIYEV, M.A.; TORBOCHKINA, L.I.

Phosphorus compounds in some actinomycetes and their connection with antibiotic activity. Antibiotiki 6 no.8:752-761 Ag '61.

(MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ACTINOMYCES) (ANTIBIOTICS) (PHOSPHORUS COMPOUNDS)

GUBERNIYEV, M.A.; TORBOCHKINA, L.I.; NAVOL'NEVA, I.N.

Mechanism of glucose dissimilation in the erythromycin producer. Biokhimiia 28 no.3:388-394 My-Je '63. (MIRA 17:2)

公司 医克里克氏 化合作品设置 用在市场 医共和性 医皮肤 医性性神经病 医多种性神经病

1. All-Union Research Institute of Antibiotics, Moscow.

TORDECHKINA, L. I., GUBERNIYEV, M. A. (USSR)

"Influence of Phosphorus on the Metabolism of Hexose and Pentose Phosphates in Macolide Producers."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

GUBERNIYEV, M.A.; TORBOCHKINA, L.I.; BONDAREVA, N.S.

Polyphosphate characteristics of volutin granules from Act. Antibiotiki 6 no.1:5-9 Ja '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel skiy institut antibiotikov, (ACTINOMYCES) (PHOSPHATES)

# QUEERNIYEV, M.A.; TORBOCHKINA, L.I.

Effect of phosphorus on the metabolism of hexose and pentose phosphates in Act. erythreus. Antibiotiki 6 no.7:636-642 J1 '61. (MIRA 15:6)

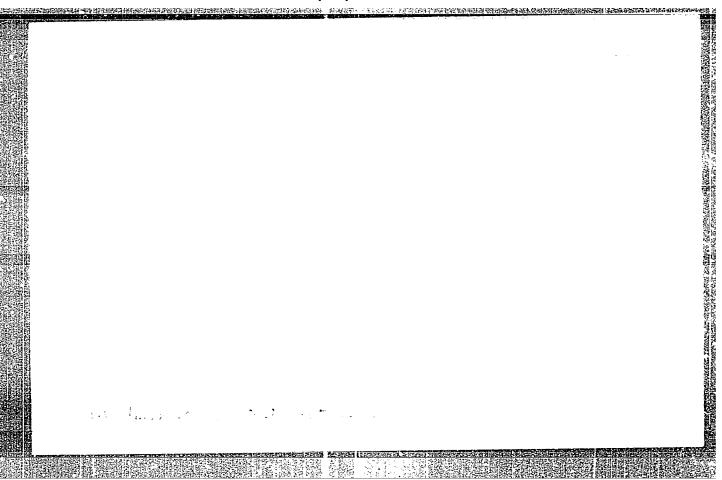
1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov Ministerstva zdravookhraneniya SSSR. (ACTINOMYCES) (HEXOSE PHOSPHATES) (PENTOSE PHOSPHATES)

GURERNIYEV, M.A.; UGOLEVA, N.A.; TORBOCHKINA, L.I.

Mucleic acids and phosphorus compounds in the mycelium of Actinomyces aureofaciens at various stages of development. Antibiotiki 1 no.3:
8-11 My-Je '56. (MLRA 9:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTOMYCES.

aureofaciens, nucleic acids & phosphorus cpds. metab. in various stages of develop. (Rus))
(PHOSPHORUS, metabolism,
Streptomyces aureofaciens, in various stages of develop
(NUCLEIC ACIDS, metabolism,
same)



GUBERNIYEV, M.A.; TORBOCHKINA, L.I.; KATS, L.N.

Polyphosphates in Act. aureofaciens. Antibiotiki 4 no.6:24-30 H-D '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PHOSPHATES chem.)
(ACTINOMYCES chem.)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756320006-1"

GUEERNIYEV, M.A.; TOREOCHKINA, L.I. (Moskva)

Specific effect of arsenate on some metabolic reactions. Vest.

AMN S.S.S.R. 17 no.12:71-81 462. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel skiy institut antibiotikov.
(ARSENIC IN THE BODY) (METABOLISM)

TORBOCHKINA, L.I.; BONDAREVA, N.S.

Effect of phosphates on the composition of phosphorus fractions in the mycelium of Actinomyces antibioticus. Antibiotiki 8 no. 11:1006-1011 N '63. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

TORBOCHKINA, L.I.; DORMIDOSHINA, T.A.; ZAYTSEVA, L.P.

Carbohydrate metabolism in oleandomycin-producing Actinomyces antibioticus. Mikrobiologiia 33 no.1:162-166 Ja-F '64.

(MIRA 17:9)

THE REPORT OF THE PARTY OF THE

l. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
(VNIIA).

TORBOCHKINA, L.I.; DORMIDOSHINA, T.A.

Machanism of glucose dissimilation in the oleandomycin-producing Actinomyces antibioticus. Mikrobiologiia 33 no.2:325-331 (MIRA 17:12) Mr-Ap '64.

1. Vsesoyuznyy nauchno-isaledovatel'skiy institut antibiotikov, Moskva.

TORBOCHKINA, L.I., DORMIDOSHINA, T.A., NAVOL'NEVA, I.N.

Pathways of pyruvic acid formation in Actinomyces erythreus and Act. antibioticus producing macrolide antibiotics. Biokhimiia 30 no.2:388-394 Mr-Ap '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel skiy institut antibiotikov Ministerstva zdravookhraneniya SSSR, Moskva.

#### TORBOCHKINA, L.I.

Composition of bacterial cell membranes and the effect of penicillin. Antibiotiki 10 no.3:272-283 Mr '65,

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

TORBOV, I.

"Rationalization measures during 1956."

p.l (Ratsionalizatsiia, Vol. 7, no. 3, 1957, Mar. Sofiia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

TORBOV, I.

"What the results of the development of rationalization during the first half of 1957 indicate."

p. 8 (Ratsionalizatsiia, Vol. 7, no. 11, Oct. 1957, Sofiia, Bulgaria.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958.

TORBOV, I.

TORECV, I. Retionalization activaties during the first half of 1956. p. 5.

Vol. 6, No. 10, Oct. 1956. RATSIGNALIZATSIIA. TECHNOLOGY Sofiia, Bulgaria

So: East European Accession, Vol. 6, No. 3, March 1957

TORBOV, Tsvetan, inzh.; KOICHEV, Todor, inzh.

Systematic breakdowns of the main oil pump in the steam turbine of the Hydroelectric-Power Station "Pernik." Elektroenergiia 13 no.4:14-17

GEORGIEV, A., inzh; TORBOV, Tsv., inzh; STATEV, K., inzh.

The Bulgarian steam boiler 35 t/h for industrial purposes.

Mashinostroene 11 no.2:23-27 F '62

5/262/62/000/006/002/021 1007/1207

AUTHORS:

Koychev Todor, Torbov Tsvetan

TITLE:

Causes of failure in the moving blades of a steam

turbine.

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk 42. Silovye ustanovki, no.6, 1962, 25, abstract 426130 (Elektro-energiya, v.12, no.6, 1961, 25-29)[Abstractor's note: original language of paper: Bulgarian].

TEXT: A case is studied of material fatigue in the moving (rotor) blades of a steam turbine installed at an electric power plant in Bulgaria. The causes of failure are analysed and measures taken for elimination of failure are described. Comparison is made between the properties of blades of old and new design.

[Abstractor's note: Complete translation.]

Card 1/1

CIA-RDP86-00513R001756320006-1" APPROVED FOR RELEASE: 08/31/2001

KOICHEV, Todor, inzh.; TORBOV, Tsvetan

Causes for damaging the working vanes of No. 2372 steam turbine.
Elektroenergiia 12 no.6:25-29 '61.

(Steam turbines)

TONCHEV, Iv., inzh. khim; TORBOV, Tsvetan, inzh.; BEICHEV, K., inzh.

How to avoid slagging in the combustion chambers of the TP-170 per hoilers at the burning of certain mixtures of lignite and brown coals. Elektroenergiia 13 no.3:3-7 Mr '62.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756320006-1"

KHADZHOV, Blagoi, inzh.; ZHEKOV, Zheko, inzh.; TORBOV, Tsvetan, inzh.; TONGHEV, Ivan, inzh. khim.

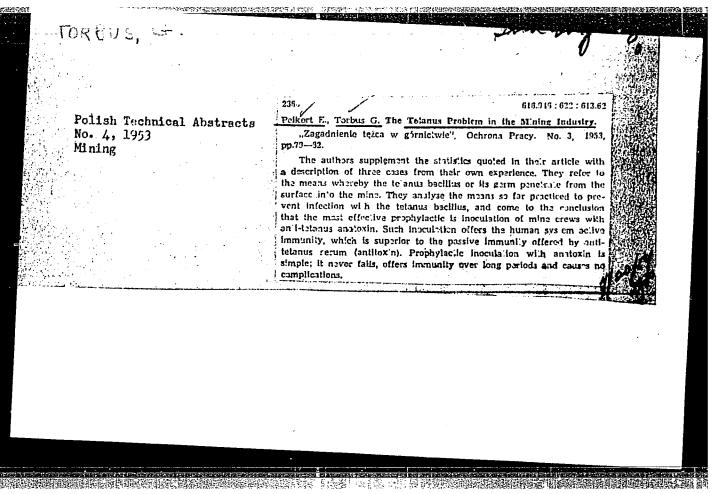
The fixung fire grate and its applicability to Bulgarian coals. Tekhnika Bulg 11 no.9:337-339 \*62.

KHADZHOV, Blagoi, inzh.; TORBOV, Tavetan, inzh.; TONCHEV, Ivan, inzh. khim.

Combustion of various mazuts with steam-powered and mechanical burners. Tekhnika Bulg 13 no. 3:16-18 '64.

L 10256-66 EWT(m)/T/EWP(t)/EWP(b)/EWA(c) \_IJP(c)\_ ACC NR. AP6001226 SOURCE CODE: UR/0363/65/001/012/2100/2101 AUTHOR: Klinkova, L. A.; Torbov, V. I.; Gordeyev, I. V. ORG: Institute of New Chemical Problems, Academy of Sciences SSSR (Institut novykh khimicheskikh problem Akademii nauk SSSR) TITLE: Crystallization of indium phosphide from the vapor phase SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 12, 1965, 2100-2101 TOPIC TAGS: indium phosphide, crystal growing, chemical transport reaction, single cryatal, cryatallization ABSTRACT: A preliminary study has been made of the effect of chemical transport reaction conditions on the preparation of InP single crystals from the vapor phase. The experiments were conducted in sealed evacuated (up to 6 x 10-6 mm Hg at 20C) quartz ampoules using polycrystalline cubic InSb (a = 5.869 Å) as the starting material. The transport temperatures were: in the heterogeneous reaction zone, 950C; in the crystallization zone, 900C. The transporting agents were I or, for a faster reaction, InI. Depending on the transporting agent, concentration, and ampoule diameter the following InP crystals were prepared: 1) n-type crystals of cubic modification up to 2 mm; 2) dendrites up to 3 mm; or 3) polyhedral crystals up to 2 mm. The prerequisites for controlled growing of InP single crystals are an elucidation of the mechanism of the reaction mixture transport to the crystallization zone, and the

	ACC NR: AP6001226
	relation between the transport process and crystal growth. Orig. art. has: 1 figure. [BO
	SUB CODE: 20/ SUBM DATE: 29Jun65/ ORIG REF: 001/ OTH REF: 011/ ATD PRESS
	4166
	불발물이 되었는데 아이들은 그 가는 경기가 되었다.
- ,	
	Card 2/2



MAZUR, Grazyna; TORBUS, Wieslawa; ZAKOWSKA, Barbara; DADLEZ, Zygmunt

Cytochemical reactions and clinical results in cases of the resistance of tubercle bacilli to isonicotinic acid hydrazide. Polski tygod, lek. 14 no.24:1092-1096 15 June 59.

1. (Ze Szpitala Przeciwgruzliczego w Cieszynie: dvr. dr Maria Krasowska i Panstwowego Sanatorium dla Dzieci i Mlodziezy w Istebnej; dvrektor: dr Zygmint Dadlez). (ISONIAZID, therapy)

KRASOWSKA, Maria; MAZUR, Grazyna; TORBUS, Wieslawa

Microbiological method in the determination of isonicotinic acid hydrazide (INH) level in the blood and its role in patients with pulmonary tuberculosis. Polski tygod. lek. 16 no.12:435-440 20 Mr '61.

1. Szpital Przeciwgruzliczy w Cieszynie; dyrektor: dr M. Krasowska.

(ISONIAZID blood)

MAZUR, Grazyna; TORBUS, Wieslawa

Catalase in the blood in patients with pulmonary tuberculosis. Polski tygod. lek. 16 no.13:467-470 27 Mr 161.

1. Ze Szpitala Przeciwgruzliczego w Cieszynie; dyrektor: dr M. Krasowska.

(CATALASE blood) (TUBERCULOSIS PULMONARY blood)

MAZUR, Grazyna; TORBUS, Wieslawa

Cytological studies on sputum and bronchial secretions in pulmonary and bronchial diseases. Gruzlica 29 no.9:761-776 S '61.

1. Ze Szpitala Przeciwgruzliczego w Cleszynie Dyrektor: dr Maria Krasowska.

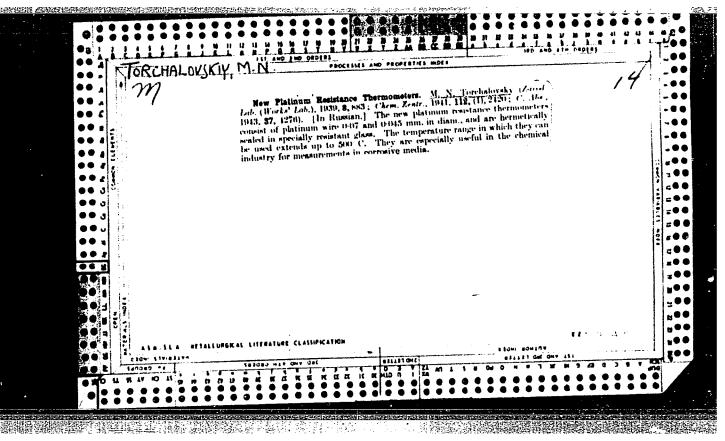
(SPUTUM) (LUNG DISEASES diag) (LUNG NEOPLASMS diag) (BRONCHI dia)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756320006-1"

TORCEA, V.

Systematic support to the application of hygiene and labor protestion norms. Munca sindic 7 no.7:18-20 Jl '63.

l. Presedinte al comitetului sindicatului de la Intreprinderea Electro-Centrale Bucuresti.

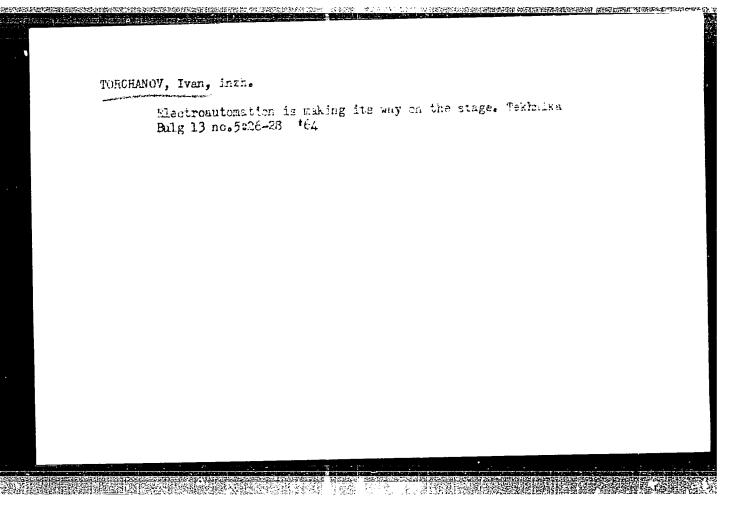


## TORCHANOV, I.

"Standardizing the production of holdfasts for lightning conductors."

p. 44 (Ratsionalizatsiia) Vol. 7, no. 8, Aug. 1957 Sofiia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958



ACC NR: AP6035732

( A, A )

SOURCE CODE: UR/0413/66/000/019/0095/0095

INVENTOR: Bereslavksiy, S. I.; Torchenkova, V. A.

ORG: none

TITLE: Method of predicting failures and detecting malfunctioning elements of various equipment. Class 42, No. 186737

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 95

TOPIC TAGS: paint, heat change of state, electronic equipment, circuit failure

ABSTRACT: An Author Certificate has been issued for a method of prediciting failures and detecting mulfunctioning elements in various equipment (e.g., electronic). The method is based on the differentiated control of the heat levels of various elements of equipment according to the change in the light falling on the surface of these elements, which consists of a heat-indicating paint. To improve the visual indication of change in the color of the light-indicating paint during the operation of the controlled elements, on portions of the surfaces of elements, mixed with portions covered with heat-indicating paint, is applied a heat-resistant paint, the color of which corresponds to the color of the heat-indicating piant at a temperature below critical.

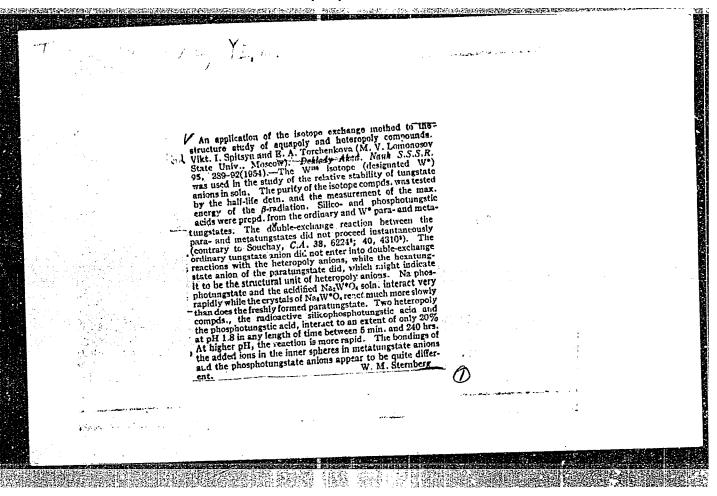
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Card 1/1

VDC: 536.522.3

#### "APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001756320006-1



THE PERSON SERVICE AND ARREST CONTRACTOR OF THE PERSON OF

SPITSYN, Vikt.I.; TORCHENKOVA, Ye.A.

Study of the conversions of p-tungstate ion in solutions with the aid of a mixed sodium-cesium salt. Zhur.neorg.khim. 1 no.8:1794-1797 (MLRA 9:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, Laboratoriya neorganichiskoy khimii. (Tungstates)

#### CIA-RDP86-00513R001756320006-1 "APPROVED FOR RELEASE: 08/31/2001

sov/78-3-12-31/36

AUTHORS:

Torchenkova, Ye. A., Spitsyn, Vikt. I.

TITLE: -

Investigation of the Isotope Exchange Between the Anions of Several Heteropoly Acids (Issledovaniye izotopnogo obmena

mezhdu anionami nekotorykh geteropolikislot)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 12,

pp 2798-2800 (USSR)

ABSTRACT:

The authors investigated in detail the influence of the pH of

the medium upon the velocity of exchange of inner addenda between phosphoro-tungstic and silico-tungstic acids. W185

isotopes were used in the investigations. In acid medium (pH  $\sim$  2) the exchange at room temperature is independent of the time and amounts to about 20%. At boiling temperature the exchange increases to 30% after three hours and to 50% after 16 hours. In weakly acid medium (pH $\sim4$ ) the exchange is complete. In almost neutral solutions the exchange is 40%, although this reaches 80% at the boiling temperature. The velocity of the exchange apparently depends upon two factors, the degree of hydrolysis of the heteropoly anions and the nature of the

tungstate ions formed. Card 1/2

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sov/78-3-12-31/36

THE STATE OF THE PROPERTY OF T

Investigation of the Isotope Exchange Between the Anions of Several Heteropoly

Acids

There are 2 tables and 6 references, 4 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova, Kafedra neorganicheskoy khimii (Moscow State University imeni

M. V. Lomonosov, Chair of Inorganic Chemistry)

SUBMITTED:

October 28, 1957

Card 2/2

CIA-RDP86-00513R001756320006-1" APPROVED FOR RELEASE: 08/31/2001

Secretary of the Control of the Cont

1237

S/020/60/132/03/43/066 B004/B007

5.2500 5.4500 (B)

TITLE:

AUTHORS:

Spitsyn, Vikt. I., Academician, Torchenkova, Ye. A.,

Glazkova, I. N.

The Influence of the Radioactive Radiation of a Solid on

the Processes of Its Dissolution

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 3, PERIODICAL:

pp. 643-645

TEXT: The authors investigated the solubility of BaSO<sub>4</sub> which was traced with S35. They describe the production of BaSO4, the specific surface of which was determined by means of a microscope and an electron microscope. The particles had a size of  $2.7-8.1\mu$ . Furthermore, the activity of precipitate and solution was measured in intervals of time. Fig. 1 shows the kinetics of BaSO<sub>4</sub> dissolution of different activities at 20°C. BaSO<sub>4</sub> was obtained by mixing equivalent quantities of 0.1 N solutions of BaCl 2 and Na2504. With a specific radioactivity of the preparation of 0.7-1.0 milli-Card 1/3

41239

The Influence of the Radioactive Radiation of a Solid on the Processes of Its Dissolution

S/020/60/132/03/43/066 B004/B007

curie/g considerable oversaturation was observed, which decreased after 25 h. In the case of preparations with 9-20 millicuries/g the concentration of the dissolved BaSO<sub>4</sub> increased proportionally with time. The solubility of BaSO<sub>4</sub> is increased by an excess of Na<sub>2</sub>SO<sub>4</sub>, but especially by an excess of BaCl<sub>2</sub> (Fig. 2). If instead of Na<sub>2</sub>SO<sub>4</sub> a 0.1 N H<sub>2</sub>SO<sub>4</sub> is used for the production of BaSO<sub>4</sub>, solubility decreases (Figs. 3,4), but the kinetics of solubility shows the same phenomena as represented in Fig. 1. The authors explain this phenomena as being due to  $\beta$ -radiation, Fig. 1. The authors explain this phenomena as being due to  $\beta$ -radiation, by which the electric double layer at the interface is influenced. This influence acts in a similar way on the dissolution as the ion strength of influence acts in a similar way on the dissolution as the ion strength of influence acts in a similar way on the substance with an increased number interaction between  $\beta$ -particles and the substance with an increased number of  $\beta$ -particles. There are 4 figures and 14 references: 9 Soviet, 1 Austrian, 1 French, 1 German, and 1 Dutch.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences, USSR)

Card 2/3

The Influence of the Radioactive Radiation of a Solid on the Processes of Its Dissolution

S/020/60/132/03/43/066 B004/B007

91239

SUBMITTED: February 24, 1960

1

Card 3/3

SPITSYN, Vist.I., akademik; TORCHENKOVA, Ye.A.; GLAZKOVA, I.N.

Process of solution of barium sulfate tagged with two radioactive indicators. Dokl.AN SSSR 133 no.5:1111-1112 Ag 160.

(MIRA 13:8)

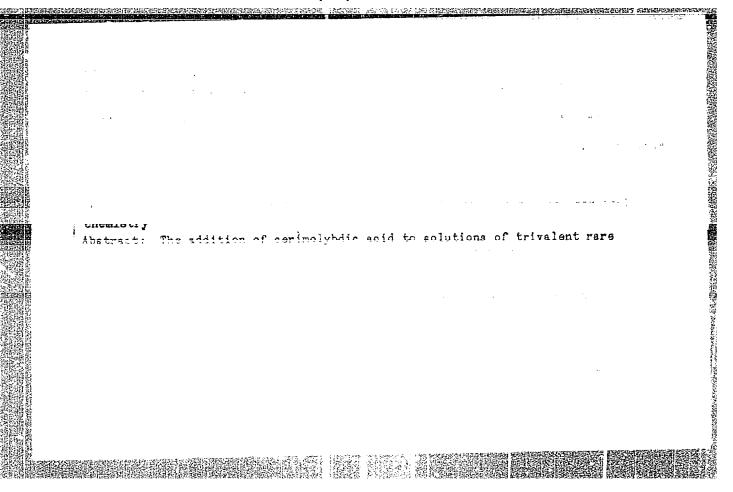
1. Institut fizicheskoy khimii Akademii nauk SSSR.

(Barium sulfate) (Barium-Isotopes) (Sulfur-Isotopes)

SPITSYN, Vikt.I.; TORCHENKOVA, Ye.A.; STEPANOVA, G.G.

Cerium molybdate method for determining radioactive cesium.

Atom. energ. 15 no.6:519-520 D '63. (MIRA 17:1)



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TORCHIGIN, V.P.

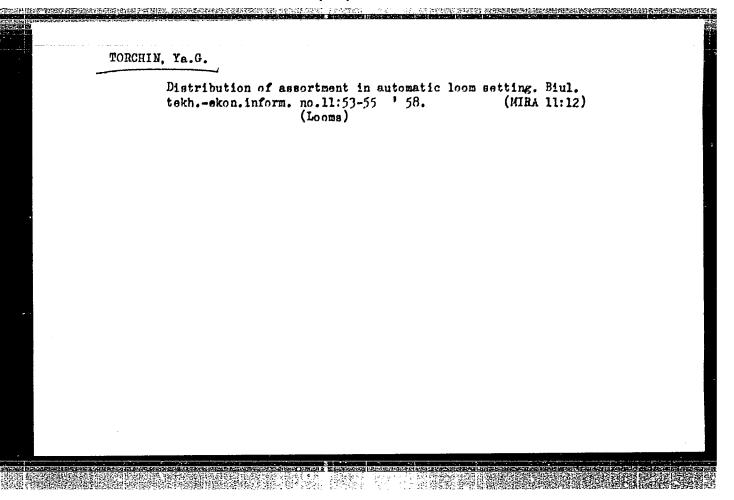
Concerning O.N. Litvinenko and V.I. Soshnikov's article
"Synthesis of nonuniform lines based on the solution of
the inverse problem of Sturm-Liuville." Radiotekh. i
elektron. 8 no.11:1959 N '63. (MIRA 17:1)

KATKOV, G. G., TORCHIN, Ya. G.

Weaving.

Means of increasing the effectiveness of automatic weaving. Tekst. prom 12 No. 9, 1952.

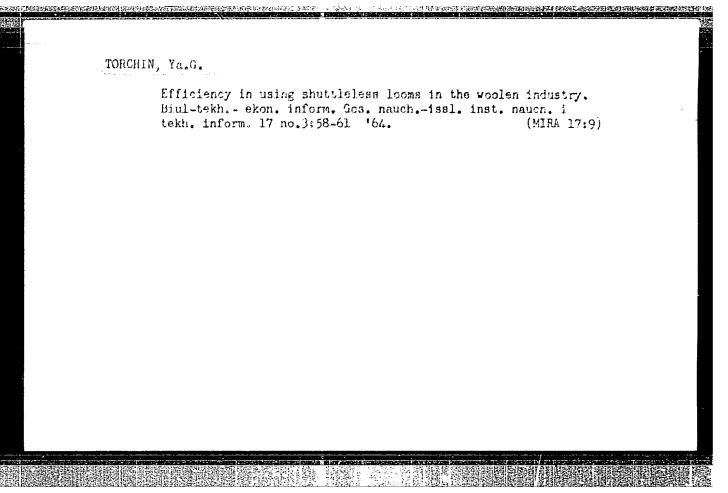
9. Monthly List of Russian Accessions, Library of Congress, December 195%, Uncl.



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	(Flexure)	(Blades)			

**"我们们的国际的国际的国际的国际的国际的国际的国际的国际的国际的国际的**"

TORCHINSKAYA, E.L., aspirant

Asymptotic method of calculating the bend of blades having a varying screw rate at high speeds of rotation. Nauch. trudy MGI no.23:221-231 158. (MIRA 15:12) (Fans, Mechanical)

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